

# Calibration Report: Digital Hygrometer Thermometer

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## Summary

Calibration Date: 20 February 2008      Next Calibration Date: 20 February 2009

A collection, analysis and calibration of data from Digital Hygrometer Thermometer, S/N:H0101086 has been completed. The calibration was performed by the calibration library, SIMCO Electronics. This data was collected by SIMCO Electronics, on February 20, 2008.

MODEL: RH411  
SERIAL NUMBER: H0101086

The manufacturer's specifications of Digital Thermo Hygrometer (S/N:H0101086) have been confirmed by comparison to standards which are regularly calibrated using accepted values of natural physical constants, ratio type of self-calibrating techniques, comparison to standards which are traceable to National Institute of Standards and Technology (NIST), or compared to consensus standards.

APPLICATION: Add corrections to measurements per post calibration table.

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**CERTIFICATE OF CALIBRATION  
FOR  
JACOBS SVERDRUP**

Description: **OMEGA ENGINEERING, RH411, DIGITAL HYGROMETER THERMOMETER**

Serial No: **H0101086**

Asset No: **A006396**

Simco ID: **40211-34723**

Dept: **1250-101**

PO No: **AI00033**

Calibration Date: <b>02/20/08</b>	Calibration Interval: <b>12 Months</b>	Recall Date: <b>02/20/09</b>
Arrival Condition: <b>MEETS MANUFACTURER'S SPEC'S.</b>		Service: <b>CALIBRATED &amp; CLEANED</b>

Procedure: **C614T.0022 REV 2**  
Temperature: **74°F**

Relative Humidity: **22%**

Standards Used:

Type	Simco ID	Due Date	Intvl Mos	Acc/Unc	Trace No.
<b>RH &amp; TEMPERATURE LOGGER</b>	<b>37232*907</b>	<b>04/11/08</b>	<b>12</b>	<b>HUMIDITY/2% RH</b>	<b>030903V-221</b>
<b>RH &amp; TEMPERATURE LOGGER</b>	<b>37232*907</b>	<b>04/11/08</b>	<b>12</b>	<b>TEMP/0.2 DEG C</b>	<b>836/268242-03</b>

Detail Of Work Performed:

PROBE CODE: H74, T6  
REPLACED POWER ADAPTOR

Parts Replaced:

**OMEHHM1-AC-110 POWER ADAPTOR (1)**

Calibration Data:

Parameter	Nominal	Measured Before	Measured After	Tolerance
<b>TEMPERATURE</b>	<b>70.93 DEG F</b>	<b>70</b>	<b>70</b>	<b>+/-1 DEG F</b>
<b>TEMPERATURE</b>	<b>21.63 DEG C</b>	<b>21</b>	<b>21</b>	<b>+/-1 DEG C</b>
<b>HUMIDITY</b>	<b>30% RH</b>	<b>32</b>	<b>32</b>	<b>+/-3% RH</b>

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806 MIDDLE GROUND BLVD.  
NEWPORT NEWS, VA 23606

**CERTIFICATE OF CALIBRATION  
FOR  
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Calibration Data:

Parameter	Nominal	Measured Before	Measured After	Tolerance
HUMIDITY	71% RH	72	72	+/-3% RH

Work performed by: *KAC*  
**Kathleen Czarnecki**  
Mechanical Technician C ( 14018 )

Reviewed by: *[Signature]*



SIMCO Electronics' quality management system conforms to ISO 9001:2000, ISO/IEC 17025:2005, and ANSI/NC SL Z540-1-1994. All calibrations are performed using internationally recognized standards traceable to the International System of Units (SI Units). Traceability is achieved through calibrations by the National Institute of Standards and Technology (NIST), other National Measurement Institutes (NMIs), or by using natural physical constants, intrinsic standards or ratio calibration techniques. Instruments are calibrated with a test accuracy ratio of 4:1 or greater, otherwise measurement uncertainty analysis and/or guard bands are applied during the measurement process. The information shown on this certificate applies only to the instrument identified above and may not be reproduced, except in full, without prior written consent from SIMCO Electronics. There is no implied warranty that the instrument will maintain its specified tolerances during the calibration interval due to possible drift, environment, or other factors beyond our control.

Dated: 02/20/08

